

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Big River Mine Tailings Site, OU1 -- Area of Response - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VII

Subject: POLREP #10
Big River Mine Tailings Site, OU1 -- Area of Response
07CR
Park Hills, MO
Latitude: 37.8625800 Longitude: -90.5087260

To: Dave Williams, US EPA

From: Janice Kroone, OSC

Date: 6/25/2014

Reporting Period: June 7 - 20, 2014

1. Introduction

1.1 Background

Site Number:	07CR	Contract Number:	ERRS:EPS71305
D.O. Number:	ERRS:0036	Action Memo Date:	12/6/2010
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	NPL	Operable Unit:	01
Mobilization Date:	4/21/2014	Start Date:	4/28/2014
Demob Date:		Completion Date:	
CERCLIS ID:	MOD98112689	RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) incident category: Inactive Production Facility (Mining-Metals [Pb]).

1.1.2 Site Description

1.1.2.1 Location

The 2014 Big River Mine Tailings Site, OU-1 (Site) action consists of excavation at residential properties where lead in soil exceed screening levels of 800 milligrams/kilogram (mg/kg) and children less than 84 months of age reside. The Site is within the boundaries of St. Francois County, Missouri. This response action does not include ongoing actions at other sub-sites (e.g. Lake Timberline sub-site and Iron Mountain Lake sub-site). The primary focus of this action lies within the "Area of Contamination" established in the 2004 Administrative Order on Consent between the EPA and the Doe Run Company.

The Site exists within an area of approximately 436 square miles and includes all of St. Francois County with the exception of the former Mine La Motte tract that extends into St. Francois County's southern border just north of the community of Mine La Motte, Missouri. St. Francois County is the location of a former mining region known as the "Old Lead Belt." The area is still referred to as the "Mineral Area." The population center of the area is located approximately 70 miles south of St. Louis. Seven large areas of mine waste covering an area of approximately 110 square miles are present within the Site. The areas included are the Bonne Terre Mine Tailings Site, the Leadwood Mine Tailings Site, the Elvins Mine Tailings Site, the Federal Mine Tailings Site, the Desloge Mine Tailings Site, the National Mine Tailings Site and the Doe Run Mine Tailings Site. Migration of lead-contaminated mine waste from these large tailings piles through human and environmental mechanisms has occurred. This response is not limited to these mine waste areas.

1.1.2.2 Description of Threat

See POLREP #1 (Initial POLREP).

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP #1 (Initial POLREP).

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The Site consists of residential properties in St. Francois County and within the "Area of Contamination" established in the 2004 Administrative Order on Consent between the EPA and the Doe Run Company, Missouri. The EPA discovered surface soils at the Site to have elevated concentrations of lead.

2.1.2 Response Actions to Date

As access agreements are signed, site walks with the EPA On Scene Coordinator, resident, START and ERRs Contractor are conducted on the properties prior to the excavation. During the site walk, any utility lines and landscaping issues are discussed with the property owner. Also, an instruction sheet on how to care for the sod is discussed and provided to the property owner. Once the sod is placed, the sod is watered by ERRS until it takes root and then at that time the care of the sod and any hydroseeded areas are turned over to the property owner to water and care for.

Excavations began on April 29, 2014, at residential properties on the Site. The excavated soil is hauled to the Bonne Terre East Repository. As of June 20, 2014, the following properties have been excavated:

Property ID	Date Excavation Completed	Cubic Yards Excavated
9001	05/06/2014	543
9313	05/02/2014	402
9316	05/08/2014	210
9288	05/12/2014	298
9481	05/12/2014	140
2689	05/19/2014	487
9120	05/16/2014	160
9331	05/20/2014	265
9006	05/22/2014	348
9401	05/22/2014	280
9225	05/29/2014	194
9380	06/02/2014	432
9399	06/03/2014	239
9498	06/06/2014	390
9398	06/05/2014	100
9459	06/09/2014	254
9054	06/12/2014	172
9105	06/12/2014	283

9104	06/18/2014	720
9460	06/13/2014	148
2929	06/17/2014	312
9436	06/18/2014	193

Also during this reporting period, the Park Hills School District hired a contractor to remove contaminated lead soils so the North County High School football field could astroturf their field. The school district worked with the EPA on proper procedures on removal. The excavated material was hauled to the Bonne Terre East Repository.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

See Polrep #6.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
Lead-Contaminated Soil (ERRS contract; excavations conducted during 2014)	Solid	6,570 yd	N/A	N/A	Bonne Terre East (Tailings Pile) Repository
Lead-Contaminated Soil (ERRS contract; excavations conducted prior to 2014)	Solid	128,706yd ³	N/A	N/A	Desloge Tailings Pile
Lead-Contaminated Soil (Site-specific contract; excavations conducted prior to 2014)	Solid	42,531 yd ³	N/A	N/A	Bonne Terre East Tailings Pile
Total		177,807 yd³			

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

Excavate, backfill, sod and hydroseed properties.

2.2.1.2 Next Steps

Continue to obtain access agreements, conduct site screening on properties, conduct site walks, excavate, backfill and restore residential properites which meet the excavation criteria for this action.

2.2.2 Issues

Heavy rains have impacted the excavation schedule. Out of the 40 days the site has been operational, nine days have been complete rain days with no excavation, backfill or sodding conducted. An additional nine days have been partial rain days where excavation, backfilling or sodding

has been shut down early in the day due to rain, or in some cases sodding could be completed, but due to wet conditions excavation or backfilling could not be done. On some days, due to the location of the backfill, only excavation has been possible.

2.3 Logistics Section

All logistical issues are being addressed by EPA and EPA contractors.

2.4 Finance Section

2.4.1 Narrative

The total EPA costs for this removal action are based on full cost accounting practices.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
2014 ERRS - Cleanup Contractor	\$2,200,000.00	\$668,540.03	\$1,531,459.97	69.61%
START (RPM tracking these costs)	\$273,395.00	\$247,388.00	\$26,007.00	9.51%
Intramural Costs				
2014 USEPA - Direct	\$111,000.00	\$8,500.00	\$102,500.00	92.34%
2014USEPA - InDirect	\$330,000.00	\$12,000.00	\$318,000.00	96.36%
Total Site Costs	\$2,914,395.00	\$936,428.03	\$1,977,966.97	67.87%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

No significant safety issues reported during this operational period.

2.6 Liaison Officer

2.7 Information Officer

2.7.1 Public Information Officer

At this time there is no PIO assigned to this site.

2.7.2 Community Involvement Coordinator

At this time there is no CIC assigned to this site. See Polrep #6 for information on previous Public Availability Sessions and other details on community outreach.

3. Participating Entities

3.1 Unified Command

The limited scope of the response does not warrant a full Incident Management Team (IMT) or Unified Command. Operations, safety, logistics, planning and finance functions are primarily being handled by contractor staff.

3.2 Cooperating Agencies

Cooperating and assisting agencies include:

City of Park Hills,
City of Leadwood,
City of Bonne Terre,
City of Doe Run,
City of Desloge,
Missouri Department of Natural Resources,
Missouri Department of Health and Senior Services

4. Personnel On Site

EPA
ERRS
START

5. Definition of Terms

AOC	Area of Contamination / Administrative Order on Consent
AOR	Area of Response
ATSDR	Agency for Toxic Substances and Disease Registry
CAMU	Corrective Action Management Unit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EPA	Environmental Protection Agency
ERRS	Emergency & Rapid Response Services Contract
MDHSS	Missouri Department of Health and Senior Services
MDNR	Missouri Department of Natural Resources
mg/L	milligrams per Liter
mg/kg	milligrams per kilogram
NCP	National Contingency Plan
ng/m3	nanograms per cubic meter
NPL	National Priorities List
OSC	On-Scene Coordinator
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
Polrep	Pollution Report
PPE	Personal Protective Equipment
PPM	Part Per Million
PRP	Potentially Responsible Party
RCRA	Resource Conservation and Recovery Act
RPM	Remedial Project Manager
Sitrep	Situation Report
START	Superfund Technical Assessment and Response Team
SS	Site Specific
SU	Sample Unit

TCLP	Toxicity Characteristic Leaching Procedure
XRF	X-Ray Fluorescent Spectrometer
yd3	Cubic Yard

6. Additional sources of information

6.1 Internet location of additional information/report

For additional information, please refer to <http://www.epaosc.org/BRAOR>

6.2 Reporting Schedule

The Pollution Report (PolRep) serves as the OSC's record of the response actions, notifications and decisions made to support the response action. PolReps will be completed and posted as conditions warrant and at the conclusion of site activities.

7. Situational Reference Materials

Please refer to the documents section of <http://www.epaosc.org/BRAOR> for maps, data, diagrams, etc.